File 16:Gale Group PROMT(R) 1990-2000/Mar 27
(c) 2000 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
(c) 1999 The Gale Group
File 47:Gale Group Magazine DB(TM) 1959-2000/Mar 27
(c) 2000 The Gale group
File 80:TGG Aerospace/Def.Mkts(R) 1986-2000/Mar 27
(c) 2000 The Gale Group
File 111:TGG Natl.Newspaper Index(SM) 1979-2000/Mar 27
(c) 2000 The Gale Group
File 148:Gale Group Trade & Industry DB 1976-2000/Mar 27
(c)2000 The Gale Group
File 275:Gale Group Computer DB(TM) 1983-2000/Mar 27
(c) 2000 The Gale Group
File 621:Gale Group New Prod.Annou.(R) 1985-2000/Mar 27
(c) 2000 The Gale Group
File 636:Gale Group Newsletter DB(TM) 1987-2000/Mar 27
(c) 2000 The Gale Group

S.N # 09/067,599

STIC-Search 3/24/2000

Set	Items	Description
S1	4410291	COMMUNICATION? OR TELECOMMUNICATION?
S2	3415454	NETWORK? OR LAN OR WAN OR (LOCAL OR WIDE)()AREA()NETWORK?
S3	3976342	STATION? ? OR HOST? ? OR PC OR PERSONAL(3N)COMPUTER? OR SERVER? ? OR DEVICE? ?
S4	7036	(WAKE()UP OR AWAKENED OR ACTIVAT? OR START OR TURN()ON)(3N)SIGNAL?
S5	450821	PATTERN?
S6	68726	S5(S)(MATCH? OR CORRELAT? OR CORRESPOND? OR EQUAL OR SIMILAR OR COMPAR?)
S7	238054	MASK? OR HIDE OR CONCEAL? OR CLOAK? OR CAMOUFLAGE OR DISGUIS?
S8	8273306	FRAGMENT? ? OR PART? ? OR PIECE? ? OR SECTION? ? OR BLOCK? ? OR UNIT? ? OR PORTION? OR COMPONENT? ?
S9	1221752	LOGIC OR WORD? ? OR BITS OR NIBBLE
S10	304574	RAM OR RANDOM()ACCESS()MEMORY
S11	16	S1(S)S2(S)S3(S)S4
S12	1	S6(S)S7(S)S8(S)S9(S)S10
S13	0	S11(S)S12
S14	11	RD S11 (unique items)
S15	277	S1(S)S4
S16	21420	S9(S)S10
S17	1	S15(S)S16
S18	0	S15(S)S5(S)S7
S19	63	S15(S)S8
S20	5	S19(S)S9
S21	4	S20 NOT (S11 OR S12 OR S14 OR S17)
S22	3	RD S21 (unique items)

File 348:European Patents 19[redacted]-2000/Mar W02
(c) 2000 European Patent Office

Set	Items	Description
S1	91638	COMMUNICATION? OR TELECOMMUNICATION?
S2	49476	NETWORK? OR LAN OR WAN OR (LOCAL OR WIDE)()AREA()NETWORK?
S3	371403	STATION? ? OR HOST? ? OR PC OR PERSONAL(3N)COMPUTER? OR SERVER? ? OR DEVICE? ?
S4	13702	(WAKE()UP OR AWAKENED OR ACTIVAT? OR START OR TURN()ON)(3N)SIGNAL? OR POWER()MANAGEMENT
S5	93600	PATTERN?
S6	39591	S5(S)(MATCH? OR CORRELAT? OR CORRESPOND? OR EQUAL OR SIMILAR OR COMPAR?)
S7	41353	MASK? OR HIDE OR CONCEAL? OR CLOAK? OR CAMOUFLAGE OR DISGUIS?
S8	120597	LOGIC OR WORD? ? OR BITS OR NIBBLE
S9	33725	RAM OR RANDOM()ACCESS()MEMORY
S10	33634	(S5 OR S8)(3N)(FRAGMENT? ? OR PART? ? OR PIECE? ? OR SECTION? ? OR BLOCK? ? OR UNIT? ? OR PORTION? OR COMPONENT? ?)
S11	71	S1(S)S2(S)S3(S)S4
S12	6	S11(S)S10
S13	7	S11(S)S9
S14	4	S13 NOT S12
S15	0	S1(5N)S4(5N)S3(10N)S10(10N)S7
S16	459	POWER()MANAGEMENT
S17	11	S16(5N)NETWORK?
S18	7833	S3(5N)(WAKE()UP OR AWAKENED OR ACTIVAT?)
S19	88	S18(5N)S2
S20	0	S19(5N)S6
S21	2	S19(5N)S8

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File   2:INSPEC 1969-2000/Fe  W2
         (c) 2000 Institution of Electrical Engineers
File   6:NTIS 64-2000/Apr W3
         Comp&distr 1998 NTIS, Intl Copyright All Righ
File   8:Ei Compendex(R) 1970-2000/Feb W4
         (c) 2000 Engineering Info. Inc.
File  34:SciSearch(R) Cited Ref Sci 1990-2000/Mar W3
         (c) 2000 Inst for Sci Info
File  35:DISSERTATION ABSTRACTS ONLINE 1861-1999/DEC
         (c) 2000 UMI
File  65:Inside Conferences 1993-2000/Aug W2
         (c) 2000 BLDSC all rts. reserv.
File  77:Conference Papers Index 1973-2000/Mar
         (c) 2000 Cambridge Sci Abs
File  94:JICST-EPlus 1985-2000/Dec W1
         (c)2000 Japan Science and Tech Corp(JST)
File  99:Wilson Appl. Sci & Tech Abs 1983-2000/Jan
         (c) 2000 The HW Wilson Co.
File 144:Pascal 1973-2000/Feb
         (c) 2000 INIST/CNRS
File 238:Abs. in New Tech & Eng. 1981-2000/Mar
         (c) 2000 Reed-Elsevier (UK) Ltd.
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
         (c) 1998 Inst for Sci Info

Set     Items   Description
S1         77   (PCI OR PERIPHERAL()COMPONENT()INTERCONNECT)()CARD?
S2      85532   (COMMUNICATIONS OR TELECOMMUNICATION?)(3N)(NETWORK? OR LAN
             OR WAN OR (LOCAL OR WIDE)()AREA()NETWORK)
S3    1965274   STATIONS OR HOSTS OR PC OR PERSONAL(3N)COMPUTER? OR SERVER?
             ? OR DEVICE? ?
S4      27112   (WAKE()UP OR AWAKENED OR ACTIVAT? OR START OR TURN()ON)(3N-
             )SIGNAL?
S5    8313788   MATCH? OR CORRELAT? OR CORRESPOND? OR EQUAL OR SIMILAR OR -
             COMPAR?
S6    1432315   PATTERN?
S7     135914   MASK? OR HIDE OR CONCEAL? OR CLOAK? OR CAMOUFLAGE OR DISGU-
             IS?
S8    5831490   FRAGMENT? ? OR PART? ? OR PIECE? ? OR SECTION? ? OR BLOCK?
             ? OR UNIT? ? OR PORTION? OR COMPONENT? ?
S9     517033   LOGIC OR WORD? ? OR BITS OR NIBBLE
S10     44231   RAM OR RANDOM()ACCESS()MEMORY
S11         0   S2 AND S4 AND S3
S12      3147   S5 AND S6 AND S8 AND S9
S13         9   S2 AND S4
S14       527   S3 AND S4
S15         0   S12 AND (S13 OR S14)
S16         9   RD S13 (unique items)
S17         6   S12 AND S2
S18         6   RD S17 (unique items)
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File 344:Chinese Patents ABS Apr 1985-2000/Jan
(c) 2000 European Patent Office
File 347:JAPIO Oct 1976-1999/Oct(UPDATED 000208)
(c) 2000 JPO & JAPIO
File 351:DERWENT WPI 1963-2000/UD=, UM=, & UP=200012
(c) 2000 Derwent Info Ltd

Set	Items	Description
S1	1033804	COMMUNICATION? OR TELECOMMUNICATION?
S2	178609	NETWORK? OR LAN OR WAN OR (LOCAL OR WIDE)()AREA()NETWORK?
S3	3698939	STATION? ? OR HOST? ? OR PC OR PERSONAL(3N)COMPUTER? OR SERVER? ? OR DEVICE? ?
S4	33910	(WAKE()UP OR AWAKENED OR ACTIVAT? OR START OR TURN()ON)(3N)SIGNAL?
S5	500195	PATTERN?
S6	111581	S5 AND (MATCH? OR CORRELAT? OR CORRESPOND? OR EQUAL OR SIMILAR OR COMPAR?)
S7	182781	MASK? OR HIDE OR CONCEAL? OR CLOAK? OR CAMOUFLAGE OR DISGUIS?
S8	7153201	FRAGMENT? ? OR PART? ? OR PIECE? ? OR SECTION? ? OR BLOCK? ? OR UNIT? ? OR PORTION? OR COMPONENT? ?
S9	289702	LOGIC OR WORD? ? OR BITS OR NIBBLE
S10	93060	RAM OR RANDOM()ACCESS()MEMORY
S11	284	S1 AND S2 AND S3 AND S4
S12	16	S6 AND S7 AND S8 AND S9 AND S10
S13	0	S11 AND S12
S14	2	S11 AND S6
S15	0	S11 AND S5 AND S7
S16	13	S11 AND S8 AND S9
S17	0	S16 AND S10
S18	16	S12 NOT (S14 OR S16)
S19	1	S18 AND S1
S20	15	S18 NOT S19

```
File   9:Business & Industry(R) Jul/1994-2000/Mar 27
         (c) 2000 Resp. DB Svcs.
File  15:ABI/INFORM(R) 1971-2000/Mar 24
         (c) 2000 Bell & Howell
File 484:Periodical Abstracts Plustext 1986-2000/Jan W2
         (c) 2000 Bell & Howell
File 553:Wilson Bus. Abs. FullText 1982-1999/Sep
         (c) 1999 The HW Wilson Co
File 813:PR Newswire 1987-1999/Apr 30
         (c) 1999 PR Newswire Association Inc
File 624:McGraw-Hill Publications 1985-2000/Mar 23
         (c) 2000 McGraw-Hill Co. Inc
File 634:San Jose Mercury  Jun 1985-2000/Mar 23
         (c) 2000 San Jose Mercury News
File 635:Business Dateline(R) 1985-2000/Mar 24
         (c) 2000 Bell & Howell
File 647:CMP  Computer Fulltext 1988-2000/Mar W3
         (c) 2000 CMP
File 674:Computer News Fulltext 1989-2000/Feb W4
         (c) 2000 IDG Communications
File 810:Business Wire 1986-1999/Feb 28
         (c) 1999 Business Wire

Set     Items   Description
S1    1651576   COMMUNICATION? OR TELECOMMUNICATION?
S2    1578111   NETWORK? OR LAN OR WAN OR (LOCAL OR WIDE)()AREA()NETWORK?
S3    1884057   STATION? ? OR HOST? ? OR PC OR PERSONAL(3N)COMPUTER? OR SE-
            RVER? ? OR DEVICE? ?
S4       4166   (WAKE()UP OR AWAKENED OR ACTIVAT? OR START OR TURN()ON)(3N-
            )SIGNAL?
S5     344428   PATTERN?
S6      64869   S5(S)(MATCH? OR CORRELAT? OR CORRESPOND? OR EQUAL OR SIMIL-
            AR OR COMPAR?)
S7     185595   MASK? OR HIDE OR CONCEAL? OR CLOAK? OR CAMOUFLAGE OR DISGU-
            IS?
S8    4692593   FRAGMENT? ? OR PART? ? OR PIECE? ? OR SECTION? ? OR BLOCK?
            ? OR UNIT? ? OR PORTION? OR COMPONENT? ?
S9     821190   LOGIC OR WORD? ? OR BITS OR NIBBLE
S10     88544   RAM OR RANDOM()ACCESS()MEMORY
S11         9   S1(S)S2(S)S3(S)S4
S12         1   S6(S)S7(S)S8(S)S9(S)S10
S13         0   S11(S)S12
S14         8   RD S11 (unique items)
S15       123   S1(S)S4
S16      4863   S9(S)S10
S17         1   S15(S)S16
S18         0   S15(S)S5(S)S7
S19        27   S15(S)S8
S20         1   S19(S)S9
S21        23   S19 NOT (S14 OR S17 OR S20 OR S12)
S22        18   S21 NOT (PY=>1998 OR PD=>980428)
```

File 233:Internet & Personal Comp. Abs. 1981-2000/Mar
(c) 2000 Info. Today Inc.
File 256:SoftBase:Reviews,Companies&Prods. 85-2000/Feb
(c)2000 Info.Sources Inc
File 278:Microcomputer Software Guide 2000/Feb
(c) 2000 Reed Elsevier Inc.

Set	Items	Description
S1	39321	COMMUNICATION? OR TELECOMMUNICATION?
S2	86552	NETWORK? OR LAN OR WAN OR (LOCAL OR WIDE)()AREA()NETWORK?
S3	138630	STATIONS OR HOSTS OR PC OR PERSONAL(3N)COMPUTER? OR SERVER? ? OR DEVICE? ?
S4	14	(WAKE()UP OR AWAKENED OR ACTIVAT? OR START OR TURN()ON)(3N-)SIGNAL?
S5	3314	PATTERN?
S6	38055	MATCH? OR CORRELAT? OR CORRESPOND? OR EQUAL OR SIMILAR OR -COMPAR?
S7	1677	MASK? OR HIDE OR CONCEAL? OR CLOAK? OR CAMOUFLAGE OR DISGU-IS?
S8	60184	FRAGMENT? ? OR PART? ? OR PIECE? ? OR SECTION? ? OR BLOCK? ? OR UNIT? ? OR PORTION? OR COMPONENT? ?
S9	28708	LOGIC OR WORD? ? OR BITS OR NIBBLE
S10	37664	RAM OR RANDOM()ACCESS()MEMORY
S11	10907	S1 AND S2 AND S3
S12	16	S5 AND S6 AND S7
S13	401	S8 AND S9 AND S10
S14	0	S11 AND S12 AND S13
S15	1	S11 AND S4
S16	13	RD S4 (unique items)
S17	11	S16 NOT (PY=>1998 OR PD=>980428)
S18	3	S11 AND S13
S19	3	S18 NOT S15

File 696:DIALOG Telecom. Newsletters 1995-2000/Mar 24
(c) 2000 The Dialog Corp.

Set	Items	Description
S1	110224	COMMUNICATION? OR TELECOMMUNICATION?
S2	90508	NETWORK? OR LAN OR WAN OR (LOCAL OR WIDE)()AREA()NETWORK?
S3	51637	STATION? ? OR HOST? ? OR PC OR PERSONAL(3N)COMPUTER? OR SERVER? ? OR DEVICE? ?
S4	110	(WAKE()UP OR AWAKENED OR ACTIVAT? OR START OR TURN()ON)(3N)SIGNAL? OR POWER()MANAGEMENT
S5	2205	PATTERN?
S6	370	S5(S)(MATCH? OR CORRELAT? OR CORRESPOND? OR EQUAL OR SIMILAR OR COMPAR?)
S7	1343	MASK? OR HIDE OR CONCEAL? OR CLOAK? OR CAMOUFLAGE OR DISGUIS?
S8	85895	FRAGMENT? ? OR PART? ? OR PIECE? ? OR SECTION? ? OR BLOCK? ? OR UNIT? ? OR PORTION? OR COMPONENT? ?
S9	8072	LOGIC OR WORD? ? OR BITS OR NIBBLE
S10	1404	RAM OR RANDOM()ACCESS()MEMORY
S11	5	S1(S)S2(S)S3(S)S4
S12	3	RD S11 (unique items)
S13	0	S6(S)S7(S)S8(S)S9(S)S10
S14	19	S1(S)S4
S15	14	S14 NOT S11
S16	13	RD S15 (unique items)
S17	11	S1(S)S9(S)S10
S18	11	S17 NOT (S16 OR S11)
S19	10	RD S18 (unique items)
S20	97	ON(W)NOW OR RAPID(W)FIRE OR WAKE(W)ON(W)LAN OR MAGIC(W)PACKET
S21	54	S20 NOT (PY=>1998 OR PD=>980428)
S22	48	RD S21 (unique items)
S23	0	S22(S)S1
S24	1	S22(S)S3
S25	0	S22(S)POWER()MANAGEMENT
S26	0	S22(S)(MICROSOFT OR OLICOM OR IBM OR ADVANCED()MICRO()DEVICES)

Results (by Rank) for: I am looking for a power management system, or method for a communications network that wakes up the computers and devices associated with the communications network. The power management system, or method compares and matches the patterns of the network and the stations. The patterns are arranged contiguously on word boundaries. There are ram patterns, masked ram patterns, and pattern match logic. When they match a host computer or server is awakened or turned on from a low power state or off state.

100 documents returned

1. 91% **PERSPECTIVE -- Usable Bandwidth**
Unknown • *COMMUNICATIONS WEEK* • 12/16/91 • 4 pages (760 words) • SUMMARY
by:JACK

2. 90% **Intnl.Business Mach - Re US Patents**
AFX - Regulatory News Service • 01/12/98 • 5 pages (1220 words) • SUMMARY
International Business Machine Corporation 12th January

3. 90% **MULTITASKING IN MULTISTAGE INTERCONNECTION NETWORK MACHINES**
Yu, Chansu Das, Chita R. • *THE 12TH INTERNATIONAL CONFERENCE ON DISTRIBUTED COMPUTING SYSTEMS* • 6/01/92 • 2 pages (180 words) • SUMMARY
This paper addresses task allocation schemes for MIN-based multiprocessors. Conflicts through the

4. 90% **Rockwell Q3 --2 (Q2 results exclude discontinued auto ops)**
AFX-EUROPE • 07/22/97 • 3 pages (590 words) • SUMMARY
Rockwell International Corp said its third quarter EPS from continuing operations of 71 cents before an acquisition charge excluded the results of the company's discontinued automotive unit which earned 17 cents per share in the second quarter, compared to 12 a year earlier.

5. 89% **A PATTERN MATCHING SYSTEM**
Sommerville, Ian • *Software - Practice and Experience* • 6/01/82 • 2 pages (210 words) • SUMMARY
This article describes a pattern matching system which has been implemented as a set of library procedures.

6. 89% **NTT Develops Fingerprint Recognition System**
COMLINE - Information Technology & Computers • 08/09/93 • 2 pages (170 words) • SUMMARY
NTT Corp. (9432) has developed a rapid and accurate fingerprint recognition

7. 89% **Other R&D Information: Computerized Yogurt Taste Tester Developed**
COMLINE - Consumer News • 01/22/97 • 2 pages (200 words) • SUMMARY
Snow Brand Milk Products have developed a "Neural Network" product testing system which will accurately predict the reaction of consumers to experimental yogurt products.

8. 89% **PREDICTIVE CONTROL OF OPTO-ELECTRONIC RECONFIGURABLE INTERCONNECTION NETWORKS USING NEURAL NETWORKS**
CHIARULLI, D. M.; GILES, C. L.; HORNE, B. G.; LEVITAN, S. P.; MAGGINI, M.; SAKR, M.F. • *Proceedings of the Second International Conference on Massively* • 01/01/95 • 2 pages (240 words) • SUMMARY
Opto-electronic reconfigurable interconnection networks are limited by significant control latency when used in large multiprocessor systems.

9. 88% **NEURAL AND FUZZY METHODS IN HANDWRITING RECOGNITION**
A.MOHAMED, MAGDI; CHIANG, JUNG-HSIEN; GADER, PAUL D.; KELLER, JAMES M.; KRISHNAPURAM, RAGHU • *Computer* • 02/01/97 • 3 pages (460 words) • SUMMARY
Handwriting recognition has challenged computer scientists for years. To succeed, a computing

10. 88% **Institute Develops Photochromic Organic Compound**
COMLINE - Telecommunications • 09/18/96 • 2 pages (310 words) • SUMMARY
The Nagoya-based Industrial Research Institute operated by the Aichi Prefectural Government has developed the world's first new organic compound that can preserve and express spiropyran compounds, a typical photochromic material.

11. 87% **CONTENT-ADDRESSABLE MEMORY REACHES SAME DENSITY AS SRAM -- Chip doubles as**
Unknown • *ELECTRONIC ENGINEERING TIMES* • 05/13/91 • 6 pages (1600 words) • SUMMARY
By CHAPPELL

12. 87% **Excalibur advances retrieval**
Karen Rodriguez • *COMMUNICATIONS WEEK* • 11/06/95 • 4 pages (760 words) • SUMMARY
Before long, graphics and video and audio clips will clutter Web servers, becoming as numerous and unwieldy as HyperText Markup Language documents.

13. 87% **Matsushita Electronic Components Adapts Semiconductor Chip Line Methods to Multichip Production**
COMLINE - Telecommunications • 10/23/97 • 2 pages (200 words) • SUMMARY
Matsushita Electronic Components has developed new printing technologies for use in films laid on the substrate for semiconductor chips.

14. 87% **PATTERN-MATCHING IN SEARCH PROBLEM SOLVING**
STANOJEVIC, MLADEN; VELASEVIC, DUSAN; VRANES, SANJA • *Proceedings of the 29th Hawaii International Conference on System* • 01/01/96 • 2 pages (260 words) • SUMMARY
Search problems generally fall into the class of NP-hard problems. Many real problems including

15. 87% **Breathing New Life Into Old Apps -- GUISys puts a pretty face**
Eric Hughey • *INFORMATION WEEK* • 10/02/95 • 7 pages (2000 words) • SUMMARY
Here's a question posed by thousands of technology

16. 87% **INSTRUCTION-SET MATCHING AND GA-BASED SELECTION FOR EMBEDDED- PROCESSOR CODE GENERATION**
BANERJI, D.K.; SHU, J.; WILSON, T.C. • *Proceedings of the Ninth International Conference on VLSI Design:* • 01/01/96 • 2 pages (200 words) • SUMMARY
The core tasks of retargetable code generation are instruction-set matching and selection for a given application program and a DSP/ASIP processor.

17. 86% **BRAINTECH ILLUMINATES PATTERN RECOGNITION**
Manufacturing Automation • 04/01/97 • 5 pages (1300 words) • SUMMARY
Founded in 1993, BrainTech, Inc. (North Vancouver, BC, Canada, 604-986-6121) (NASDAQ OTC: BNTI)

18. 86% **Nokia Corporation - Contract Awarded**
AFX - Regulatory News Service • 04/20/98 • 3 pages (510 words) • SUMMARY
Nokia Corporation 20th April

19. 86% **SMART OPTICAL RAM FOR NASA IDEAL FOR IMAGE DATABASES**
Technology Transfer Week • 02/27/96 • 3 pages (550 words) • SUMMARY
A smart optical random-access memory (RAM) under development at the University of South Alabama, Mobile, for NASA's Advanced Concepts Research Project (ACRP), offers not only high-capacity data storage and fast random data access, but also is useful for pattern classification and optical-computer interconnections.

20. 86% **NTT Transmits Optical Patterns Over Single Fiber**
COMLINE - Telecommunications • 06/10/92 • 2 pages (150 words) • SUMMARY
NTT Corp. (9432) has successfully transmitted optical patterns directly through a single optical

21. 86% **A METHOD FOR IMPROVING STRING PATTERN MATCHING MACHINES**
Aoe, Junichi Shimada, Ryosaku Yamamoto, Yoneo • *IEEE Transactions on Software Engineering* • 1/01/84 • 2 pages (140 words) • SUMMARY
This correspondence describes an efficient string pattern matching machine to locate all occurrences of any of a finite number of keywords and phrases in an arbitrary text string.

22. 86% **Breathing New Life Into Old Apps -- GUISys puts a pretty face on AS/400 and mainframe applications-without rewrites**
Eric Hughey • *Information Week* • 09/26/95 • 7 pages (2000 words) • SUMMARY
Here's a question posed by thousands of technology managers: In a world hungry for the ease and simplicity of graphical user interfaces, what can you do with the rich, stable suite of applications you've been using successfully for years-whose fatal flaw is a character-based user interface?

23. 86% **Teach your computer to read! -- Optical character recognition software converts documents to editable text**
Gable, Michael • *PC Today* • 07/01/93 • 2 pages (210 words) • SUMMARY
Discuses optical character recognition (OCR) which converts document images into text that can be manipulated on a computer.

24. 86% **INSIDE PARALLEL COMPUTERS: TRENDS IN INTERCONNECTION NETWORKS**
SIEGEL, HOWARD JAY; STUNKEL, CRAIG B. • *IEEE Computational Science & Engineering* • 10/01/96 • 2 pages (330 words) • SUMMARY
Computational scientists who depend on parallel computing to let them run larger models in less time will be disappointed unless the processors can pass information back and forth quickly.

25. 86% **Pattern recognition: a hard nut to crack**
R. Colin Johnson • *OEM Magazine* • 07/24/96 • 2 pages (260 words) • SUMMARY
Pattern recognition is a hard nut to crack for two reasons:the mechanics of matching incoming sensory data against stored templates and the creation of the templates in the first place.

26. 86% **COMPAQ: Compaq unveils powerful notebooks with 266-MHz Pentium Processors, including new Armada 4200**
M2 Presswire • 01/13/98 • 9 pages (2360 words) • SUMMARY
Proving that one size does not fit all when it comes to high performance portable computing, Compaq Computer Corporation (NYSE: CPQ)today introduced not only a variety of new products based on the powerful Intel 266-MHz Pentium processor with MMX technology, but a newly redesigned Armada 4200 family - featuring two of the world's first ACPI-compliant portables with improved power management - and new service and support options.

27. 86% **Remote Management: National Semiconductor Makes Remote Management ofthe Networked PC Easier and Cheaper**
EDGE: Work-Group Computing Report • 03/30/98 • 5 pages (1200 words) • SUMMARY
National Semiconductor Corporation Monday unveiled a highly integrated remote management controller chip for servers and personal computers that dramatically improves IT managers' ability to remotely manage and fix networked PC problems while slashing costs associated with doing so.

28. 85% **PATTERN-MATCHING PROCESSOR COULD SPEED NET ROUTING. (STARTUP NEOCORE DEVELOPS NEW TECHNOLOGY) (COMPANY BUSINESS AND MARKETING)**
WIRBEL, LORING • *Electronic Engineering Times* • 11/10/97 • 2 pages (200 words) • SUMMARY
Startup NeoCore, formed by a group of experts in mathematics and parallel processing, has developed a new pattern-matching processor it claims could greatly accelerate recognition tasks in such applications as data mining, network routing and pattern recognition.

29. 85% **PATTERN MATCHING AND PATTERN-DIRECTED INVOCATION IN SYSTEMS PROGRAMMING LANGUAGES**
Komman, Brent D. • *Journal of Systems and Software* • 3/01/83 • 2 pages (190 words) • SUMMARY
Pattern recognition systems in the artificial intelligence field have been based on the assumption that components of the system should be invoked not by directly calling them, but by running data across their sensors and having the invocation take place when a defined pattern is found.

30. 85% **COMPAQ: Compaq unveils powerful notebooks with 266-MHz Pentium processors, including new Armada 4200**
M2 Presswire • 01/16/98 • 9 pages (2260 words) • SUMMARY
Proving that one size does not fit all when it comes to high performance portable computing, Compaq Computer Corporation (NYSE: CPQ)today introduced not only a variety of new products based on the powerful Intel 266-MHz Pentium processor with MMX technology, but a newly redesigned Armada 4200 family - featuring two of the world's first ACPI-compliant portables with improved power management - and new service and support options.

31. 85% **Determing patterns is a non-determinant task**
Unknown • *ELECTRONIC ENGINEERING TIMES* • 03/29/93 • 5 pages (1000 words) • SUMMARY
By Robert

32. 85% **The Complexity of Parallel Computations**
Wyllie, James C. • *NCSTRL* • 08/01/79 • 2 pages (380 words) • SUMMARY
Recent advances in microelectronics have brought closer to feasibility the construction of computers containing thousands (or more) of processing elements.

33. 85% **BTR PLC - Acquisition**
AFX - Regulatory News Service • 10/16/97 • 4 pages (750 words) • SUMMARY
Btr Plc 16th October

34. **NTT Develops High-precision Character-recognition System** ☐
85% *COMLINE - Telecommunications* • 09/24/97 • 2 pages (150 words) • SUMMARY
NTT (9432) has come up with a high-precision computer character-recognition system that utilizes easily-linked patterns of speech to automatically correct one-half to two- thirds of the characters that existing recognition devices fail to decipher.

35. **Determining mental state from EEG signals using parallel implementations of neural networks** ☐
84% Anderson, Charles W.;Devulapalli, Saikumar V.;Stolz, Erik A. • *SCI PROGRAM* • 01/01/95 • 2 pages (220 words) • SUMMARY
EEG analysis has played a key role in the modeling of the brain's cortical dynamics, but relatively little effort has been devoted to developing EEG as a limited means of communication.

36. **A SIMPLE TREE PATTERN MATCHING ALGORITHM FOR CODE GENERATOR** ☐
84% CHEN, TZER-SHYONG; LAI, FEIPEI; SHANG, RUNG-JI • *Proceedings of the 19th Annual International Computer Software and* • 01/01/95 • 2 pages (160 words) • SUMMARY
This paper describes a simple tree pattern matching algorithm for the code generator of compilers.

37. **AN EFFICIENT TEST METHOD FOR EMBEDDED MULTI-PORT RAM WITH BIST CIRCUITRY** ☐
84% MATSUMURA, TSUNEO • *Proceedings of the IEEE International Workshop on Memory Technology,* • 01/01/95 • 2 pages (190 words) • SUMMARY
The read/write disturb test is as indispensable for multi-port RAM testing as the functional memory test.

38. **FOCUS: Saltus, SER shares up sharply on first day; Saltus gains exaggerated** ☐
84% COLIN FERNANDEZ • *AFX-EUROPE* • 07/15/97 • 3 pages (720 words) • SUMMARY
FRANKFURT (AFX) - Shares in automatic screwdriving tools maker Saltus Technology AG made steep gains following its listing on Germany's Neuer Markt yesterday, but some analysts are not optimistic about its future prospects.

39. **Melco Develops Layout-Mask Verification System** ☐
84% *COMLINE - Electronics* • 12/22/93 • 1 page (100 words) • SUMMARY
Mitsubishi Electric Corp. (6503) (Melco) has developed an automatic verification system that

40. **Mitsubishi Electric Tests Unloading Robot** ☐
84% *COMLINE - Tokyo Financial Wire* • 02/21/97 • 2 pages (160 words) • SUMMARY
Mitsubishi Electric (6503) has test-operated a robot for unloading cargo. The technology has

41. **Black-hole magic** ☐
84% R. Colin Johnson • *OEM Magazine* • 02/28/95 • 3 pages (670 words) • SUMMARY
Albert Einstein's pioneering work in theoretical physics is still rippling out in its implications, most recently by spinning out new pattern-recognition technologies that vie with neural networks.

42. **COMMON PROPERTIES OF SOME MULTIATTRIBUTE FILE SYSTEMS** ☐
84% Du, H.C. Lee, R.C.T. Lin, W.C. • *IEEE Transactions on Software Engineering* • 3/01/79 • 2 pages (170 words) • SUMMARY
This paper results from an attempt to unify several different file system design theories. The

43. **NASA'S SMART RAM LIKELY TO AID DATABASE STORAGE APPLICATIONS** ☐
84% *Optical Memory News* • 03/12/96 • 3 pages (480 words) • SUMMARY
A smart optical random-access memory (RAM) under development at the University of South Alabama at Mobile, for NASA's Advanced Concepts Research Project (ACRP), promises higher- capacity data storage and faster random data access.

44. **AN FPGA-BASED POINT PATTERN MATCHING PROCESSOR WITH APPLICATION TO FINGERPRINT MATCHING** ☐
84% JAIN, ANIL K.; RATHA, NALINI K.; ROVER, DIANE T. • *Proceedings of the 1995 Computer Architectures for Machine Perception (CAMP '95)* • 01/01/95 • 2 pages (180 words) • SUMMARY
We describe the design and synthesis of a high-performance coprocessor for point pattern matching with application to fingerprint matching using Splash 2 - an attached processor for SUN SPARCstation hosts.

45. **Position independent pattern matching by neural network** ☐
84% Hirai, Y. ; Tsukui, Y. • *IEEE Transactions on Systems, Man and Cybernetics* • 07/01/90 • 2 pages (210 words) • SUMMARY
A novel pattern-matching neural network is proposed. The network matches an input to multiple

46. **Cadic Develops Method for 1-Day Mold Production** ☐
84% *COMLINE - Automobiles and Transportation* • 11/28/96 • 2 pages (160 words) • SUMMARY
Cadic, a venture company that engages in the development of precision forming technology, together with Toyota Motors (7203), has developed a manufacturing method that can make in molds in one day from laser-manufactured patterns for casting engine parts.

47. **PATTERN MATCHING FOR DESIGN CONCEPT LOCALIZATION** ☐
83% DEMORI, R.; GALLER, M.; KONTOGIANNIS, K. • *Proceedings of the Second Working Conference on Reverse Engineering* • 01/01/95 • 2 pages (240 words) • SUMMARY
The effective synergy of a number of different techniques is the key to the successful development of an efficient Reverse Engineering environment.

48. **Kao Develops Polymer Identification System** ☐
83% *COMLINE - Chemicals & Materials* • 12/04/91 • 2 pages (190 words) • SUMMARY
Kao Corp. (4452) has developed a simple method of identifying the functional polymer components

49. **A consideration on misclassification of face-patterns by neural networks** ☐
83% Takahashi, K. • *Journal of the Institute of Image Electronics Engineers of Japan* • 06/01/97 • 2 pages (220 words) • SUMMARY
Layered neural networks which employ the back-propagation method for learning have been widely applied to pattern recognition, and their effectiveness has been shown.

50. **EXTENDING REGULAR EXPRESSIONS WITH CONTEXT OPERATORS AND** ☐
83% **PARSE EXTRACTION**
Kearns, Steven M. • *SOFTWARE PRACTICE & EXPERIENCE* • 8/01/91 • 2 pages (220 words) • SUMMARY
Regular expressions are used in many applications to specify patterns because any regular expression can be compiled into a very efficient one-pass pattern matcher called a finite automaton.

51. **FPGAs Give Reconfigurable Computers A Sight License** ☐
83% Murray Disman • *OEM Magazine* • 07/24/96 • 10 pages (2800 words) • SUMMARY
Just as the success of the personal computer arose from its chameleon-like ability to execute

52. **Recall time in sparsely encoded Hopfield-like associative memory** ☐
83% Frolov, A.A. ; Husek, D. • *1998 IEEE International Joint Conference on Neural Networks Proceedings. IEEE World Congress on Computational Intelligence (Cat. No.98CH36227)* • 01/01/98 • 2 pages (210 words) • SUMMARY
Recall time in sparsely encoded Hopfield-like associative memory under parallel dynamics is investigated on the basis of computer simulation.

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The industrial electronics sector, too, will probably sustain a decline in exports this year in relation to stepped-up production at bases overseas.

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83% BOKHARI, SHAHID H. • *IEEE Parallel & Distributed Technology* • 10/01/96 • 2 pages (320 words) • SUMMARY
The overhead of interprocessor communication is a major factor in limiting the performance of parallel computer systems.

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Advantest (6857) has developed a new sophisticated system for testing memories called the T5591.

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83% **FRACTAL TRANSFORM FOR MULTIMEDIA DATABASES**
ESSAFI, HASSANE; MARIE-JULIE, JEAN MICHEL • *4th International Forum on Research and Technology Advances in* • 01/01/97 • 2 pages (270 words) • SUMMARY
Digital image database represent huge amount of data, automatic indexing and content base retrieval are crucial factors.

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The following topics were dealt with: quality of service; MPEG video performance and broadband

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To fulfill the computing power required by real-time and embedded applications of image processing such as pattern recognition, shape analysis (using classical or less classical methods such as Neural-Networks), LEP has developed the fully programmable vectorial processor L- Neuro 2.3 which is composed of an array of 12 DSPs (Digital Signal Processors).

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Anritsu Corp. (6754) has launched sales of its MP1761A low- price pulse pattern generator with an

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Sekisui Chemical Industry launched on March 10 their "Just Cool" can cooler for beer and soft drinks.

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Northern Telecom (nortel) 8th October

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M2 Presswire • 02/16/98 • 3 pages (490 words) • SUMMARY
Siemens has achieved a major breakthrough in security technology with the development of the FingerTip sensor, which, for the first time, combines all of the fingerprint digitising functionality on the silicon chip itself, and enables the recognition and evaluation of a fingerprint in real time.

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Ronan Yaari • *NetGuide* • 04/10/96 • 7 pages (2200 words) • SUMMARY
The Web is everywhere. You hear about it in commercials and read about it on bus posters.

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The following topics were dealt with: the remote enqueue operation on networks of workstations; the

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R. Colin Johnson • *Electronic Engineering Times* • 07/03/96 • 5 pages (1210 words) • SUMMARY
Berkeley, Calif. - Widespread acceptance of fuzzy logic and other "model free" techniques for

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Hirai, Y. ; Tsukui, Y. • *IJCNN International Joint Conference on Neural Networks (Cat. No.90CH2879-5)* • 01/01/90 • 2 pages (220 words) • SUMMARY
A novel one-dimensional pattern-matching neural network which matches an input to multiple candidates of the stored templates in parallel is proposed.

67. 82% **Masking fields: a massively, parallel neural architecture for learning, recognizing, and predicting multiple groupings of pattern data**
Cohen, M.A.; Grossberg, S. • *Applied Optics* • 05/15/87 • 2 pages (340 words) • SUMMARY
A massively parallel neural network architecture, called a masking field, is characterized through systematic computer simulations.

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AFX-EUROPE • 10/02/97 • 4 pages (940 words) • SUMMARY
FRANKFURT (AFX) - German shares were sharply higher in floor trade, lifted by Wall Street's strong performance last night, but with many traders predicting the market will come off its highs ahead of the public holiday tomorrow.

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Unknown • *ELECTRONIC ENGINEERING TIMES* • 06/15/92 • 3 pages (720 words) • SUMMARY
By R. COLIN

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Business Wire • 03/30/98 • 3 pages (650 words) • SUMMARY
SANTA CLARA, Calif.--(BUSINESS WIRE)--March 30, 1998--Quality Semiconductor, Inc. (QSI)

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Husek, D. ; Frolov, A.A. ; Muravje'v, I. • *Neural Networks and Their Applications. Conference Proceedings* • 01/01/96 • 2 pages (200 words) • SUMMARY
The efficiencies of neural network and traditional pattern matching approaches for pattern recognition are compared.

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Cheng, H.D. ; Fu, K.S. • *PATTERN RECOG.* • 01/01/87 • 2 pages (150 words) • SUMMARY
The authors discuss string-matching and dynamic time-warp pattern-matching. The string-matching

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Ed Tittel & James Michael Stewart • *NetGuide* • 06/05/96 • 10 pages (2800 words) • SUMMARY
Today's big buzz is on the Internet, the global agglomeration of networks large and small that

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PAUL, SANTANU PRAKASH, ATUL • *IEEE TRANSACTIONS ON SOFTWARE ENGINEERING* • 6/01/94 • 2 pages (200 words) • SUMMARY
For maintainers involved in understanding and reengineering large software, locating source code fragments that match certain patterns is a critical task.

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R. Colin Johnson • *ELECTRONIC ENGINEERING TIMES* • 10/30/95 • 4 pages (1000 words) • SUMMARY
Bangor, Wales - Theoretical work by a team at the University of Wales proposes that computation, learning and even cognition itself can all be fruitfully viewed as data compression.

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LEE, SEONG-WHAN; SONG, HEE-HEON • *Proceedings of the Third International Conference on Document* • 01/01/95 • 2 pages (170 words) • SUMMARY
Neural networks have been successfully applied to various pattern classification problems owing to their learning ability, high discrimination power, and excellent generalization ability.

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KIRKPATRICK, KEITH • *Computer Shopper* • 09/01/97 • 2 pages (190 words) • SUMMARY
Microsoft's new OnNow standard, consisting of seven device-class specifications and three new bus power-management specifications, lets hardware OEMs readily develop PCs and peripherals that can go into a power-down mode and 'wake up' instantly as needed.

79. 82% **Nokia Corporation - Contract Awarded**
AFX - Regulatory News Service • 04/07/98 • 4 pages (690 words) • SUMMARY
Nokia Corporation 7th April

80. 82% **Hidden value: aggressive traffic management gives CellularOne Puerto Rico a competitive edge.**
Simmons, Ron; Barrett, Jerrienne; White, Brandon • *Telephony* • 11/24/97 • 7 pages (1700 words) • SUMMARY
Cellular, personal communication services and paging service providers are facing a battalion of new competitors and are losing up to 30% of their customers annually.

81. 82% **On accelerating pattern matching for technology mapping**
Matsunaga, Y. • *1998 IEEE/ACM International Conference on Computer-Aided Design. Digest of Technical Papers (IEEE Cat. No.98CB36287)* • 01/01/98 • 2 pages (190 words) • SUMMARY
The pattern matching algorithm is simple and fast compared to other such matching algorithms such as Boolean matching.

82. **ESP3: A LANGUAGE FOR PATTERN DESCRIPTION AND A SYSTEM FOR PATTERN RECOGNITION** 82%
Baron, Robert J. Shapiro, Linda G. • *IEEE Transactions on Software Engineering* • 3/01/77 • 2 pages (120 words) • SUMMARY
Extended Snobol picture pattern processor (ESP3) is a programming language and pattern recognition system which was designed for generating, recognizing, and manipulating two-dimensional line drawings.

83. **REFINED DESIGN MAY MAKE DEVICES EASIER TO MANUFACTURE -- Inventor gives** 82%
Unknown • *ELECTRONIC ENGINEERING TIMES* • 05/11/92 • 4 pages (860 words) • SUMMARY
By LORING

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M2 Presswire • 03/17/98 • 5 pages (1210 words) • SUMMARY
Lucent Technologies today announced the industry's highest capacity, multiservice access concentrator for network operators, including public carriers, Internet Service Providers, and large corporations.

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Driven by, the need to increase access to information at divisional and sector levels, Cambridgeshire Constabulary has quadrupled the bandwidth on its internal network with a bespoke telecoms network developed by NTL.

86. **ACTIVITY-DRIVEN CLOCK DESIGN FOR LOW POWER CIRCUITS** 81%
FARRAHI, AMIR; SARRAFZADEH, MAJID; TELLEZ, GUSTAVO E. • *Proceedings of the IEEE/ACM International Conference on Computer-* • 01/01/95 • 2 pages (200 words) • SUMMARY
In this paper we investigate activity-driven clock trees to reduce the dynamic power consumption of synchronous digital CMOS circuits.

87. **Fanuc Starts Shipments of CNC Network Terminal System** 81%
COMLINE - Tokyo Financial Wire • 08/25/97 • 2 pages (170 words) • SUMMARY
Fanuc (6945) has started shipments of "FactoLink," which is a network system that uses computer numerical control (CNC) equipment as the terminal for the host computer.

88. **Hitachi Develops New Method to Optimize Neuro-Networks** 81%
COMLINE - Information Technology & Computers • 11/16/90 • 2 pages (130 words) • SUMMARY
Hitachi, Ltd. (6501) has developed a method to optimize neuro- networks. The optimized networks

89. **A VIRTUAL BUS ARCHITECTURE FOR DYNAMIC PARALLEL PROCESSING** 81%
Lee, K.C. • *IEEE Transactions on Parallel and Distributed Systems* • 2/01/93 • 2 pages (210 words) • SUMMARY
To support parallel processing of data intensive applications, the interconnection network of a parallel/distributed machine must provide high end-to-end communication band width and handle the bursty and concentrated communication patterns generated by dynamic load balancing and data collection operations.

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Gary Solomon, Senior Staff Engineer, Platform Architecture Lab, Randy Scott, Platform Architecture Manager Mobile and Handheld, Products Group, Intel Corp., Hillsboro, Ore. • *Electronic Engineering Times* • 05/19/97 • 6 pages (1500 words) • SUMMARY
The hybridization of consumer electronics and PCs is driving new usage models such as Intel Corp.'s PC Theater.

91. **Stock price pattern matching system-dynamic programming neural networks approach** 81%
Tanigawa, T. ; Kamijo, K. • *IJCNN International Joint Conference on Neural Networks (Cat. No.92CH3114-6)* • 01/01/92 • 2 pages (210 words) • SUMMARY
The dynamic programming neural network (DNN). DNN is based on the integration of the neural and

92. **Infrastructure for management. (fully enabled management) (Technology Information)** 81%
Steinke, Steve • *Network* • 10/01/97 • 13 pages (3900 words) • SUMMARY
If managing your PC systems is like herding cats, some new hardware and software foundations might provide the right lasso for the roundup.

93. **Siemens wins 1 bln dm order to modernise Greek telecoms network** 81%
AFX-EUROPE • 12/19/97 • 2 pages (160 words) • SUMMARY
MUNICH (AFX) - Siemens AG said its public communications networks division has secured an order worth 1 bln dm from Greece's state-owned telecom operator OTE to modernize the country's phone network.

94. 81% **TENCON '89. Fourth IEEE Region 10 International Conference. 'Information Technologies for the 90's' E/sup 2/C/sup 2/; Energy, Electronics, Computers, Communications (Cat. No.A89CH2766-4)**
Not Provided • 01/01/89 • 2 pages (230 words) • SUMMARY
The following topics are dealt with: ISDN protocols and packet switching; TDX-10 digital switching

95. 81% **Performance analysis and design guidelines of a mobitex modem at 8 kb/s**
El-Tanany, M. ; Morner, T.E. ; Stern, H.P. • *Vehicular Technology Society 42nd VTS Conference. Frontiers of Technology. From Pioneers to the 21st Century (Cat. No.92CH3159-1)* • 01/01/92 • 2 pages (200 words) • SUMMARY
A modem intended to be interfaced to a 450-MHz or 900-MHz half-duplex, frequency-agile transceiver module with supporting microcontroller circuitry is discussed.

96. 81% **Nearest matched filter classification of spatiotemporal patterns**
Hecht-Nielsen, R. • *Applied Optics* • 05/15/87 • 2 pages (270 words) • SUMMARY
Recent advances in massively parallel optical and electronic neural network processing technology have made it plausible to consider the use of matched filter banks containing large numbers of individual filters as pattern classifiers for complex spatiotemporal pattern environments such as speech, sonar, radar, and advanced communications.

97. 81% **GENERATION, PROCESSING, AND APPLICATION OF PROGRAM TEST PATTERNS**
Miller, Edward F., Jr. • *AIAA/NASA/IEEE/ACM Computers In Aerospace Conference 1977* • 11/01/77 • 2 pages (180 words) • SUMMARY
A test pattern for a computer program consists of a concise statement of the specific conditions or the specific input/output relationships that demonstrate the quality of the program element associated with the pattern.

98. 81% **Solving the near-far problem: exploitation of spatial and spectral diversity in wireless personal communication networks**
Agee, B.G. • *Virginia Tech's Third Symposium on Wireless Personal Communications Proceedings* • 01/01/93 • 2 pages (280 words) • SUMMARY
A general approach is presented for overcoming the near-far power management problem in wireless communication networks, by exploiting the spatial or spectral diversity inherent to the communication network.

99. 81% **RAM MOBILE DATA: New GPS-enabled modem cuts cost of wireless data communication**
M2 Presswire • 03/11/98 • 6 pages (1300 words) • SUMMARY
RAM Mobile Data today announces the launch of the MiniApp2 application for the low cost Maxon DM200 modem, available for the field service industry.

100. 81% **Nokia Corporation - Contract Awarded**
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Nokia Corporation 6th April

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